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SERIAL NO.: 10/789,734
EXAMINER: Unknown
ART UNIT: 1753
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Amendments to the Specification:

Please replace paragraph [0039] with the following amended paragraph:

[0039] As shown in the reaction formulae given above, ~~hydrogen~~ hydroxyl ions and hydrogen gas are produced at the cathode, metallic ions such as sodium ions are reduced to become metals, and the phenomenon of these substances reacting with water occurs. If the water contains ions such as calcium or magnesium at the time of electrolysis, these ions are also reduced to metals, and components such as calcium and magnesium, by further reaction, produce hydroxides. As a result, these compounds are often deposited on the surface of the electrode as scale.

Please replace paragraph [0070] with the following amended paragraph:

[0070] As these equations show, ~~hydrogen~~ hydroxyl ions and hydrogen gas are produced at the cathode, metallic ions such as sodium ion are reduced to become metals, and these react with water. If the water contains ions such as calcium or magnesium during electrolysis these ions are also reduced to metals, and components such as calcium and magnesium produce hydroxides. As a result, these compounds are often deposited on the surface of the electrode as scale.